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Title: Phase sensitive modulated multiplex scanning pattern imaging - using measuring duration per image element which is shorter than cycle duration of modulation, and multi-scanning each of several image elements during cycle

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Equivalents:

Abstract

The scanning alternatively can be carrier out during corresp. segments of successive cycles. For the computing of phase angle and amplitude of the local modulation effect, three of four equidistantly timed evaluations per cycle are used, for simplifying the evaluation per image element.

The unit scanning the object being tested is a thermography camera performing phase sensitive modulation thermography, heat wave thermography and lock in thermography. The temp. of the object under test is modulated without contact by the absorption of electromagnetic radiation. USE/ADVANTAGE - Thermography, electro-microscopy and tomography. Quick scanning pattern image method combined with low frequency effect modulation, to produce parameter cleaned phase images.